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=> s (thermal?(5a)inhibit?)(10a)starch?

L1 8 FILE HCA  
L2 1 FILE IFIPAT  
L3 1 FILE USPATFULL  
L4 0 FILE JAPIO

TOTAL FOR ALL FILES

L5 10 (THERMAL?(5A) INHIBIT?)(10A) STARCH?

=> s l5 and (anhydrous(10a)starch?)

L6 0 FILE HCA  
L7 0 FILE IFIPAT  
L8 0 FILE USPATFULL  
L9 0 FILE JAPIO

TOTAL FOR ALL FILES

L10 0 L5 AND (ANHYDROUS(10A) STARCH?)

=> d 15 1-10

L5 ANSWER 1 OF 10 HCA COPYRIGHT 1997 ACS  
AN 125:204530 HCA  
TI Pharmaceutical products containing **thermally-inhibited starches**  
IN Kasica, James J.; Thomas, David J.; Zallie, James P.  
PA National Starch and Chemical Investment Holding Corp., USA  
SO PCT Int. Appl., 89 pp.  
CODEN: PIXXD2  
PI WO 9622110 A2 960725  
DS W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,  
ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT,  
LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,  
SG, SI  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
IE, IT, LU, MC, ML, MR, NE, NL, PT, SE  
AI WO 96-US612 960117

PRAI US 95-375321 950118

DT Patent

LA English

L5 ANSWER 2 OF 10 HCA COPYRIGHT 1997 ACS

AN 125:204119 HCA

TI Cosmetics containing **thermally-inhibited starches**

IN Jeffcoat, Roger; Pasapane, Joseph; Ronco, Donna L.; Solarek, Daniel B.; Hanchett, Douglas J.

PA National Starch and Chemical Investment Holding Co., USA

SO PCT Int. Appl., 113 pp.

CODEN: PIXXD2

PI WO 9622073 A2 960725

DS W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT

RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG

AI WO 96-US613 960117

PRAI US 95-375320 950118

DT Patent

LA English

L5 ANSWER 3 OF 10 HCA COPYRIGHT 1997 ACS

AN 125:198990 HCA

TI Water-based adhesives containing **thermally inhibited starches**

IN Koubek, Timothy C.; Nesiewicz, Russell J.; Philbin, Michael T.; Wieczorek, Joseph, Jr.; Chiu, Chung-Wai; Schiermeyer, Eleanor; Thomas, David J.; Shah, Manish B.; Solarek, Daniel B.

PA National Starch and Chemical Investment Holding Corp., USA

SO PCT Int. Appl., 99 pp.

CODEN: PIXXD2

PI WO 9623038 A1 960801

DS W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI

RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN

AI WO 96-US988 960124

PRAI US 95-377544 950124

US 95-385259 950218

DT Patent

LA English

L5 ANSWER 4 OF 10 HCA COPYRIGHT 1997 ACS

AN 125:198924 HCA

TI Paper containing **thermally inhibited starches** as wet-end additives

IN Solarek, Daniel B.; Jeffcoat, Roger; Koltai, Kimberly A.; Chiu, Chung-Wai; Schiermeyer, Eleanor; Thomas, David J.; Shah, Manish B.

PA National Starch and Chemical Investment Holding Corp., USA

SO PCT Int. Appl., 94 pp.

CODEN: PIXXD2

PI WO 9623104 A1 960801

DS W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI

RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN

AI WO 96-US999 960124

PRAI US 95-377718 950124

DT Patent  
LA English

L5 ANSWER 5 OF 10 HCA COPYRIGHT 1997 ACS  
AN 124:346442 HCA  
TI **Thermally inhibited starches** and  
flours and process for their production  
IN Chiu, Chung-wai; Schiermeyer, Eleanor; Thomas, David J.; Shah,  
Manish B.  
PA National Starch and Chemical Investment Holding Co, USA  
SO PCT Int. Appl., 49 pp.  
CODEN: PIXXD2  
PI WO 9604315 A1 960215  
DS W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,  
GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG,  
MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT,  
UA, UZ  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG  
AI WO 95-US684 950118  
PRAI WO 94-US8559 940729  
US 94-296211 940825  
DT Patent  
LA English

L5 ANSWER 6 OF 10 HCA COPYRIGHT 1997 ACS  
AN 124:320038 HCA  
TI **Thermally inhibited** pre-gelatinized  
**starches** and flours and process for their production  
IN Shah, Manish B.; Thomas, David L.; Chiu, Chung-wai  
PA National Starch and Chemical Investment Holding Co, USA  
SO PCT Int. Appl., 25 pp.  
CODEN: PIXXD2  
PI WO 9604316 A1 960215  
DS W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,  
GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG,  
MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT,  
UA, US  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG  
AI WO 95-US688 950118  
PRAI WO 94-US8559 940729  
US 94-296211 940825  
DT Patent  
LA English

L5 ANSWER 7 OF 10 HCA COPYRIGHT 1997 ACS  
AN 124:315512 HCA  
TI Foods containing **thermally-inhibited**  
**starches** and flours  
IN Thomas, David J.; Chiu, Chung-Wai; Schiermeyer, Eleanor; Shah,  
Manish B.; Hanchett, Douglas J.; Jeffcoat, Roger  
PA National Starch and Chemical Investment Holding Co, USA  
SO PCT Int. Appl., 114 pp.  
CODEN: PIXXD2  
PI WO 9603892 A1 960215  
DS W: AT, AU, BB, BG, BR, CA, CH, DE, DK, ES, FI, GB, HU, JP, KP, KR,  
LK, LU, MG, MN, MW, NO, PL, RO, RU, SD, SE, US  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG  
AI WO 95-US9138 950728  
PRAI WO 94-US8559 940729  
US 94-296211 940825  
WO 95-US682 950118

US 95-473688 950607  
 US 95-481963 950607  
 DT Patent  
 LA English

L5 ANSWER 8 OF 10 HCA COPYRIGHT 1997 ACS  
 AN 124:315509 HCA  
 TI Foods containing **thermally-inhibited** and  
 pre-gelatinized **starches** and flours  
 IN Chiu, Chung-wai; Schiermeyer, Eleanor; Thomas, David J.; Shah,  
 Manish B.  
 PA National Starch and Chemical Investment Holding Co, USA  
 SO PCT Int. Appl., 38 pp.  
 CODEN: PIXXD2  
 PI WO 9603891 A1 960215  
 DS W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,  
 GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG,  
 MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT,  
 UA, VN  
 RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
 IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG  
 AI WO 95-US682 950118  
 PRAI WO 94-US8559 940729  
 US 94-296211 940825  
 DT Patent  
 LA English

L5 ANSWER 9 OF 10 IFIPAT COPYRIGHT 1997 IFI  
 AN 1562767 IFIPAT;IFIUDB;IFICDB  
 TI STABILIZATION OF THICKENED AQUEOUS FLUIDS; IODIDE OR IODATE  
 IN SANDELL LIONEL S  
 PA DU PONT DE NEMOURS, E I & CO (25048)  
 PI US 4486317 841204 (CITED IN 005 LATER PATENTS)  
 AI US 82-415681 820907  
 RLI US 81-225725 810116 CONTINUATION-IN-PART 4380482  
 FI US 4486317 841204  
 US 4380482  
 DT UTILITY; REASSIGNED  
 FS CHEMICAL  
 OS CA 102:64295  
 CLMN 15

L5 ANSWER 10 OF 10 USPATFULL  
 AN 84:67476 USPATFULL  
 TI Stabilization of thickened aqueous fluids  
 IN Sandell, Lionel S., Hagerstown, MD, United States  
 PA E. I. Du Pont de Nemours and Company, Wilmington, DE, United  
 States (U.S. corporation)  
 PI US 4486317 841204  
 AI US 82-415681 820907 (6)  
 RLI Continuation-in-part of Ser. No. US 81-225725, filed on 16 Jan  
 1981, now patented, Pat. No. US 4380482  
 DT Utility  
 LN.CNT 961  
 INCL INCLM: 252/008.500A  
 INCLS: 149/002.000; 149/021.000; 149/041.000; 149/047.000;  
 149/108.800; 252/008.500C; 252/008.550R; 252/315.300  
 NCL NCLM: 507/110.000  
 NCLS: 149/002.000; 149/021.000; 149/041.000; 149/047.000;  
 149/108.800; 252/315.300; 507/111.000; 507/112.000;  
 507/145.000; 507/211.000; 507/217.000; 507/903.000;  
 507/922.000  
 IC [3]  
 ICM: C06B045-02  
 ICS: C09K007-02; E21B043-26

EXF 252/8.5A; 252/8.5C; 252/8.55R; 252/315.3; 149/2; 149/21; 149/36;  
149/38; 149/41; 149/44; 149/47; 149/92  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d kwic 15 1-10

L5 ANSWER 1 OF 10 HCA COPYRIGHT 1997 ACS  
TI Pharmaceutical products containing **thermally-**  
**inhibited starches**  
AB **Thermally-inhibited starches** and  
flours are used in pharmaceutical products as a diluent, filler,  
carrier, binder, disintegrant, coating, thickener, moisture sink,  
and the. . . by freeze-drying. Preferably, the pH is adjusted to  
a neutral pH or above prior to the dehydration and heat treatment.  
**Thermally-inhibited corn starch** was  
prepd. by adjustment to pH = 9.0 and dehydration and heat treatment  
at 160.degree. for 30 min. Prepn. of. . .  
ST pharmaceutical product **thermal inhibition**  
**starch**; controlled release tablet aspirin starch  
IT Pharmaceutical dosage forms  
(suppositories, vaginal, pharmaceutical products contg.  
**thermally-inhibited starches**)  
IT Pharmaceutical dosage forms  
(tablets, controlled-release, pharmaceutical products contg.  
**thermally-inhibited starches**)  
IT 75-56-9, Propylene oxide, reactions 108-24-7, Acetic anhydride  
7647-01-0, Hydrochloric acid, reactions 122431-97-4  
RL: RCT (Reactant)  
(pharmaceutical products contg. **thermally-**  
**inhibited starches**)  
IT 50-27-1, Estriol 50-78-2, Aspirin 9005-25-8, **Starch**,  
biological studies 9005-25-8D, **Starch**, crosslinked  
9005-82-7, Amylose  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(pharmaceutical products contg. **thermally-**  
**inhibited starches**)

L5 ANSWER 2 OF 10 HCA COPYRIGHT 1997 ACS  
TI Cosmetics containing **thermally-inhibited**  
**starches**  
AB **Thermally-inhibited starches** and  
flours are used in cosmetic compns. such as skin and hair care  
products as emulsifiers, thickeners, and aesthetic control. . .  
1.00, stearic acid 2.00, octyl palmitate 5.00, C12-15 alkyl benzoate  
5.00, dimethicone copolyol 1.00, propylene glycol 3.00,  
triethanolamine 0.50, above **thermally-inhibited**  
CEPA-modified **starch** 2.00, preservative 1.00, and  
deionized water 79.50%.  
IT Antiperspirants  
Emulsifying agents  
Shampoos  
Sunscreens  
Thickening agents  
Wheat flour  
(cosmetics contg. **thermally-inhibited**  
**starches**)  
IT Shaving preparations  
(aftershaves, cosmetics contg. **thermally-**  
**inhibited starches**)  
IT Hair preparations  
(conditioners, cosmetics contg. **thermally-**  
**inhibited starches**)  
IT Cosmetics  
Shaving preparations  
(creams, cosmetics contg. **thermally-inhibited**

**starches)**  
IT Hair preparations  
    (dyes, cosmetics contg. **thermally-inhibited**  
        **starches)**  
IT Cosmetics  
    (eye shadows, cosmetics contg. **thermally-**  
        **inhibited starches)**  
IT Hair preparations  
    (gels, styling, cosmetics contg. **thermally-**  
        **inhibited starches)**  
IT Cosmetics  
    (lipsticks, cosmetics contg. **thermally-**  
        **inhibited starches)**  
IT Cosmetics  
    (lotions, cosmetics contg. **thermally-inhibited**  
        **starches)**  
IT Cosmetics  
    (makeups, liq.; cosmetics contg. **thermally-**  
        **inhibited starches)**  
IT Cosmetics  
    (mascaras, cosmetics contg. **thermally-inhibited**  
        **starches)**  
IT Cosmetics  
    (mousses, cosmetics contg. **thermally-inhibited**  
        **starches)**  
IT Cosmetics  
    (powders, cosmetics contg. **thermally-inhibited**  
        **starches)**  
IT Antiperspirants  
    (roll-on, cosmetics contg. **thermally-inhibited**  
        **starches)**  
IT Cosmetics  
    (sprays, powder; cosmetics contg. **thermally-**  
        **inhibited starches)**  
IT Antiperspirants  
    (sticks, cosmetics contg. **thermally-inhibited**  
        **starches)**  
IT 75-56-9D, Propylene oxide, derivs. with hydroxypropylated  
    **starch** 2530-32-7D, Octyl succinic acid, derivs. with  
    **starch** and aluminum sulfate 9005-82-7, Amylose  
10043-01-3D, Aluminum sulfate, derivs. with **starch** and  
octyl succinate  
RL: BUU (Biological use, unclassified); BIOL (Biological study);  
USES (Uses)  
    (cosmetics contg. **thermally-inhibited**  
        **starches)**  
IT 9087-61-0P, Aluminum **starch** octenyl succinate  
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation);  
BIOL (Biological study); PREP (Preparation); USES (Uses)  
    (cosmetics contg. **thermally-inhibited**  
        **starches)**  
IT 64-17-5, Ethanol, uses  
RL: NUU (Nonbiological use, unclassified); USES (Uses)  
    (cosmetics contg. **thermally-inhibited**  
        **starches)**  
IT 108-24-7, Acetic anhydride 9005-25-8, **Starch**, reactions  
RL: RCT (Reactant)  
    (cosmetics contg. **thermally-inhibited**  
        **starches)**

L5 ANSWER 3 OF 10 HCA COPYRIGHT 1997 ACS  
TI Water-based adhesives containing **thermally**  
    **inhibited starches**  
AB **Thermally inhibited starches** and  
flours are used in conventional water-based adhesives such as

corrugating, cigaret, and remoistenable adhesives. The starches or flours are. . .

IT Drying  
(in manuf. of water-based adhesives contg. **thermally inhibited starch**)

IT Labels  
Lamination  
(**thermally inhibited starch**-based adhesives for)

IT Adhesives  
(water-based adhesives contg. **thermally inhibited starches**)

IT Tiles  
(ceramic, **thermally inhibited starch**-based adhesives for)

IT Tobacco products  
(cigaretts, **thermally inhibited starch**-based adhesives for manuf. of)

IT 9005-25-8, **Starch**, processes 9045-28-7, **Starch**  
acetate 9049-76-7, Hydroxypropyl **starch** 169105-05-9  
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(adhesives from **starch inhibited** by **thermal** treatment)

IT 24937-78-8, Ethylene-vinyl acetate copolymer  
RL: TEM (Technical or engineered material use); USES (Uses)  
(remoistenable adhesives contg. **thermally inhibited starch** and)

L5 ANSWER 4 OF 10 HCA COPYRIGHT 1997 ACS

TI Paper containing **thermally inhibited starches** as wet-end additives

AB **Thermally-inhibited starches** and flours, preferably cationic or amphoteric **starches** which are optionally chem. crosslinked, are added, primarily as wet end additives, to paper stock. The starch (I) is inhibited. . .

ST **thermally inhibited starch** papermaking additive; bonding retention paper **thermally inhibited starch**

IT Paper  
(**thermally inhibited** cationic **starch**  
as papermaking wet-end additive for improved dry bond strength and retention)

IT 9005-25-8, **Starch**, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(**thermally inhibited** cationic **starch**  
as papermaking wet-end additive for improved dry bond strength and retention)

L5 ANSWER 5 OF 10 HCA COPYRIGHT 1997 ACS

TI **Thermally inhibited starches** and flours and process for their production

AB **Thermally-inhibited**, non-pregelatinized granular **starches** and flours derived from any native source, useful in foods and in the manuf. of industrial products, are produced by. . .

ST **starch heating thermal inhibition**  
gelatinization; heat treatment **starch thermal inhibition** gelatinization; gelatinization **thermally inhibited** waxy maize **starch**

IT Food  
(made by using **thermally-inhibited** flour;  
**thermally inhibited starches** and flours and process for their prodn.)

IT Flours and Meals

(thermally inhibited; thermally inhibited starches and flours and process for their prodn.)

IT 9005-25-8D, **Starch**, acid-converted  
RL: PEP (Physical, engineering or chemical process); PROC (Process)  
(and heat-treated; **thermally inhibited**  
**starches** and flours and process for their prodn.)

IT 9005-25-8, **Starch**, processes  
RL: PEP (Physical, engineering or chemical process); PROC (Process)  
(waxy maize, heat-treated; **thermally inhibited**  
**starches** and flours and process for their prodn.)

L5 ANSWER 6 OF 10 HCA COPYRIGHT 1997 ACS

TI **Thermally inhibited** pre-gelatinized  
**starches** and flours and process for their production

AB The title pre-gelatinized **starches** and flours are  
**thermally inhibited** and exhibit a non-cohesive  
texture when dispersed or dissolved in cold water. The starches are  
prep'd. by dehydrating to a. . .

ST **starch thermal inhibition**  
pregelatinization; dehydration **thermal inhibition**  
**starch**

IT Dehydration, chemical  
(**thermally inhibited** pre-gelatinized  
**starches** and flours and process for their prodn.)

IT 9005-25-8P, **Starch**, preparation  
RL: FFD (Food or feed use); IMF (Industrial manufacture); PRP  
(Properties); TEM (Technical or engineered material use); BIOL  
(Biological study); PREP (Preparation); USES (Uses)  
(**thermally inhibited** pre-gelatinized  
**starches** and flours and process for their prodn.)

L5 ANSWER 7 OF 10 HCA COPYRIGHT 1997 ACS

TI Foods containing **thermally-inhibited**  
**starches** and flours

AB A **thermally-inhibited** granular **starch**  
or flour is used as an ingredient in various foods. The  
**thermally-inhibited starches** are  
functionally equiv. to chem. cross-linked **starches**. The  
starches or flours are prep'd. by dehydrating the starch or flour to  
anhyd. or substantially anhyd. (<1% moisture), preferably. . .  
dehydration may be carried out by heating the starch, extg. the  
starch with a solvent, or freeze-drying the starch. The  
**starch** may be pregelatinized prior to or after  
**thermal inhibition** using known methods which do  
not substantially rupture the **starch** granules. Thus, to  
obtain a heat-stable, non-cohesive thickener, samples of granular  
starch were slurried in water, the pH of the. . .

ST **thermally inhibited starch** flour

IT Amaranthus  
Barley  
Cassava  
Corn  
Cream substitutes  
Flours and Meals  
Food  
Freeze drying  
Frozen desserts  
Frozen foods  
Gravy  
Meat  
Pasta  
Rice  
Salad dressings  
Thickening agents

(thermally-inhibited starches and flours for food use)

IT Potato  
(French fry, thermally-inhibited starches and flours for food use)

IT Food  
(breakfast cereal, thermally-inhibited starches and flours for food use)

IT Bakery products  
(cakes, cheese, thermally-inhibited starches and flours for food use)

IT Food functional properties  
(gelling, thermally-inhibited starches and flours for food use)

IT Jams and Jellies  
(grape, thermally-inhibited starches and flours for food use)

IT Frozen desserts  
(ice cream, thermally-inhibited starches and flours for food use)

IT Food  
(infant, thermally-inhibited starches and flours for food use)

IT Bakery products  
(muffins, thermally-inhibited starches and flours for food use)

IT Drying  
(oven, thermally-inhibited starches and flours for food use)

IT Bakery products  
(pies, fruit, thermally-inhibited starches and flours for food use)

IT Condiments  
(sauces, thermally-inhibited starches and flours for food use)

IT Condiments  
(sauces, white, thermally-inhibited starches and flours for food use)

IT Meat  
(sausage, frankfurter, thermally-inhibited starches and flours for food use)

IT Cream  
(sour, thermally-inhibited starches and flours for food use)

IT Soups  
(vegetable, thermally-inhibited starches and flours for food use)

IT Food functional properties  
(viscosity, thermally-inhibited starches and flours for food use)

IT Milk preparations  
(yogurt, thermally-inhibited starches and flours for food use)

IT 64-17-5, Ethanol, biological studies  
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)  
(dehydration; thermally-inhibited starches and flours for food use)

IT 9005-25-8P, Starch, biological studies 9037-22-3DP, Waxy starch, derivs. 9037-22-3P, Waxy starch  
60164-73-0P, Acetylated waxy starch  
RL: FFD (Food or feed use); IMF (Industrial manufacture); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(thermally-inhibited starches and flours for food use)

L5 ANSWER 8 OF 10 HCA COPYRIGHT 1997 ACS  
TI Foods containing **thermally-inhibited** and  
pre-gelatinized **starches** and flours  
AB A granular **starch** or flour which is both **thermally**  
**-inhibited** and pregelatinized is used as an ingredient in  
various foods. The starches are functionally equiv. to chem.  
cross-linked starches. The . . . preferably at a neutral or basic  
pH, for a time sufficient to inhibit the starch to the desired  
degree. The **starch** may be pregelatinized prior to or  
after **thermal inhibition** using known methods  
which do not substantially rupture the **starch** granules.  
Thus, starch slurries with pH adjusted to 6-10 with a 5% sodium  
carbonate soln. were pregelatinized in a pilot. . .  
ST food **thermally inhibited** pregelatinized  
**starch**; flour thermally inhibited pregelatinized  
IT Meat  
(emulsified; **thermally-inhibited** and  
pre-gelatinized **starches** and flours for food use)  
IT Amaranthus  
Bakery products  
Banana  
Barley  
Cassava  
Corn  
Flours and Meals  
Food  
Frozen desserts  
Frozen foods  
Gravy  
Pasta  
Pea  
Potato  
Puddings  
Rice  
Sago palm  
Salad dressings  
Sorghum  
Sweet potato  
Tomato paste, puree, and sauce  
Wheat  
(**thermally-inhibited** and pre-gelatinized  
**starches** and flours for food use)  
IT Food  
(breakfast cereal, **thermally-inhibited** and  
pre-gelatinized **starches** and flours for food use)  
IT Bakery products  
(cakes, cheese, **thermally-inhibited** and  
pre-gelatinized **starches** and flours for food use)  
IT Rice  
(glutinous, flour, **thermally-inhibited** and  
pre-gelatinized **starches** and flours for food use)  
IT Jams and Jellies  
(grape, **thermally-inhibited** and  
pre-gelatinized **starches** and flours for food use)  
IT Food  
(infant, **thermally-inhibited** and  
pre-gelatinized **starches** and flours for food use)  
IT Bakery products  
(muffins, mix; **thermally-inhibited** and  
pre-gelatinized **starches** and flours for food use)  
IT Bakery products  
(pies, **thermally-inhibited** and  
pre-gelatinized **starches** and flours for food use)  
IT Condiments

(sauces, **thermally-inhibited** and  
pre-gelatinized **starches** and flours for food use)

IT Condiments  
(sauces, barbecue, **thermally-inhibited** and  
pre-gelatinized **starches** and flours for food use)

IT Cream  
(sour, **thermally-inhibited** and  
pre-gelatinized **starches** and flours for food use)

IT Food functional properties  
(viscosity, **thermally-inhibited** and  
pre-gelatinized **starches** and flours for food use)

IT Milk preparations  
(yogurt, **thermally-inhibited** and  
pre-gelatinized **starches** and flours for food use)

IT 9005-25-8P, **Starch**, biological studies 9037-22-3P, Waxy  
**starch**  
RL: FFD (Food or feed use); IMF (Industrial manufacture); PRP  
(Properties); BIOL (Biological study); PREP (Preparation); USES  
(Uses)  
(**thermally-inhibited** and pre-gelatinized  
**starches** and flours for food use)

L5 ANSWER 9 OF 10 IFIPAT COPYRIGHT 1997 IFI

ACLM . . . an aqueous phase containing a polysaccharide  
water-thickener selected from the group consisting of natural and  
derivatized galactomannans, derivatized cellulose and  
**starch**, the improvement comprising an **inhibitor**  
of the **thermal** degradation of said thickener, said  
**inhibitor** comprising iodide ion compound selected from the  
group consisting of hydriodic acid, ammonium iodide, an  
alkyl-substituted ammonium iodide, or an. . .

L5 ANSWER 10 OF 10 USPATFULL

CLM What is claimed is:  
. . . an aqueous phase containing a polysaccharide water-thickener  
selected from the group consisting of natural and derivatized  
galactomannans, derivatized cellulose and **starch**, the  
improvement comprising an **inhibitor** of the  
**thermal** degradation of said thickener, said  
**inhibitor** comprising iodide ion compound selected from the  
group consisting of hydriodic acid, ammonium iodide, an  
alkyl-substituted ammonium iodide, or an. . .

=> s 15 and (non-pregelatinized)  
L11 1 FILE HCA  
L12 0 FILE IFIPAT  
L13 0 FILE USPATFULL  
L14 0 FILE JAPIO

TOTAL FOR ALL FILES

L15 1 L5 AND (NON-PREGELATINIZED)

=> d 115 ab

L15 ANSWER 1 OF 1 HCA COPYRIGHT 1997 ACS

AB **Thermally-inhibited, non-**  
**pregelatinized** granular **starches** and flours  
derived from any native source, useful in foods and in the manuf. of  
industrial products, are produced by dehydrating and heat-treating a  
granular starch or flour at .gtoreq.100.degree.. These starches  
resist gelatinization or gelatinize to a limited extent without  
attaining a peak viscosity.

=> d 115

L15 ANSWER 1 OF 1 HCA COPYRIGHT 1997 ACS  
AN 124:346442 HCA  
TI **Thermally inhibited starches** and  
flours and process for their production  
IN Chiu, Chung-wai; Schiermeyer, Eleanor; Thomas, David J.; Shah,  
Manish B.  
PA National Starch and Chemical Investment Holding Co, USA  
SO PCT Int. Appl., 49 pp.  
CODEN: PIXXD2  
PI WO 9604315 A1 960215  
DS W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,  
GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG,  
MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT,  
UA, UZ  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG  
AI WO 95-US684 950118  
PRAI WO 94-US8559 940729  
US 94-296211 940825  
DT Patent

=> d 15 6 ab

L5 ANSWER 6 OF 10 HCA COPYRIGHT 1997 ACS  
AB The title pre-gelatinized **starches** and flours are  
**thermally inhibited** and exhibit a non-cohesive  
texture when dispersed or dissolved in cold water. The starches are  
prep'd. by dehydrating to a substantially anhyd. state, and  
heat-treating at temp. .gtoreq.100.degree. to inhibit the starch.  
The starches may be used in place of chem. crosslinked  
pre-gelatinized starches in food and industrial applications.

=> d 15 6

L5 ANSWER 6 OF 10 HCA COPYRIGHT 1997 ACS  
AN 124:320038 HCA  
TI **Thermally inhibited** pre-gelatinized  
**starches** and flours and process for their production  
IN Shah, Manish B.; Thomas, David L.; Chiu, Chung-wai  
PA National Starch and Chemical Investment Holding Co, USA  
SO PCT Int. Appl., 25 pp.  
CODEN: PIXXD2  
PI WO 9604316 A1 960215  
DS W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,  
GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG,  
MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT,  
UA, US  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG  
AI WO 95-US688 950118  
PRAI WO 94-US8559 940729  
US 94-296211 940825  
DT Patent